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(54) Title: GLYCOSOLATED ENKEPHALIN AGENTS

(57) Abstract: It is taught here that enkephalin peptides which are glycosylated with a disaccharide will be transported across the blood brain barrier and deliver analgesic effects superior to morphine when introduced into the bloodstream. Glycosylated peptides with disaccharides attached are superior to analogous peptides with either mono- or tri- saccharides attached.

### INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C07H 5/06; C07K 7/00, 9/00					
US CL : 514/8,17,23,25,53; 530/322; 536/55.2, 55.3					
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap		Relevant to claim No.		
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Y			2-3, 6 and 8-10		
<b>X,P</b>	PALIAN et al., "Glycopeptide-Membrane Interactions: Glycosyl Enkephalin Analogues Adopt Turn Conformations By NMR and CD In Amphipathic Media" JACS, April 2003, Vol. 125, pages 5823-31, see Fig. 1 compound 3 and abstract.		1,2,4-7 and 10		
X,P	POLT et al., "Glycosylated Enkephalins Penetrate" Endocytosis-Analgesia Superior To Morphin", Abs. New Orleans, La. March 23-27, 2003 Publisher: App.C., Abstract #256.	tract of Papers: 225th ACS Nat'l Mtg,	1-2, 4-7 and 10		
Further	documents are listed in the continuation of Box C.	See patent family annex.			
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## INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/05340

tegory •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 4,407,794 A (ROQUES et al.) 4 October 1983 (04.10.1983), see entire patent, especially examples and claims.	1-10
A	EGLETON et al., "Improved Bioavailability To The Brain of Glycosylated Met- Enkephalin Analogs", Brain Research, 2001, Vol. 881, pages 37-46, see entire article.	1-10
A	US 5,767,254 A (POLT) 16 June 1998 (16.06.1998), see entire patent, especially patent claims.	1-10
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INTERNATIONAL SEARCH REPORT	PCT/US04/05340
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